Timothy Delille

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Education

University of California, Berkeley, Master of Engineering in Computer Science (EECS) specialized in **Data Science and Systems** • 3.75/4.0 GPA — 2019-2020 *Berkeley, CA*
- Coursework: *Machine Learning, Applied Stochastic Processes, Financial Engineering Systems, Convex Optimization, Principles and Techniques of Data Science, Natural Language Processing*
- Fung Excellence Fellow

Arts et Métiers ParisTech, Combined BSc and MSc in *Mechanical and Industrial Engineering* • 3.93/4.0 GPA — 2017-2019 *Paris / Lille*
- One of France's top-ranking Grandes Écoles for Engineering (combined Bachelor of Science and Master of Science)
- Coursework: *Advanced Controls Systems, Kalman Filtering Theory, Financial Analysis, Optimization and Numerical Methods, Power Electronics, Continuum Mechanics and Finite Element Methods*
- Louis Magne Fellow

Lycée Sainte-Geneviève, *Versailles,* Preparatory program • 3.81/4.0 GPA — 2015-2017 *Versailles*
- Two years of intensive program in France's top-ranking school leading to nationwide entrance examinations to the Grandes Écoles for scientific studies
- Coursework: *Linear Algebra, Probability and Stochastic Processes, Vector Calculus, Vector-valued functions, multivariate calculus, Improper Integrals, Differential Systems*

ABIBAC Certificate, *Lycée Richelieu* • awarded with highest honours — 2012-2015 *Paris*
- Combination of the German Abitur and the French scientific Baccalaureat with concentrations in mathematics and engineering sciences

Experience

Data Scientist Intern at **Eurovia Management**, under the supervision of Regional Director Nicolas Wolff — May – Aug 2019 *Paris*
- **Co-founded** *Elena***, a start-up using deep learning** on embedded devices (NVIDIA's Jetson Nano GPU) to detect dangerous situations from video streams
- *Elena* also received the support of the **CITRIS Invention Lab** and the **Jacobs Institute** at University of California, Berkeley

Research assistant at the **Institute of Transportation Studies** under the supervision of Director, Prof. Alexandre Bayen — Jul – Sept 2018 *UC Berkeley*
- Developed **a crowdsourcing website** to gather knowledge about the impact of navigational apps on communities
- Developed *ACCESS Magazine's* new website, edited by UCLA and UC Berkeley Faculty members
- Developed the EE290O Flow-course website (*Deep multi-agent reinforcement learning with applications to autonomous traffic*)

Supply Chain Intern at **Safran Electronics & Defense** — Jun – Jul 2018 *Paris*
- Used data analytics and flow management methods to optimize processes used on the *Rafale* production line

Project Work

Capstone Project / Research Work: *Artificial Intelligence and Blockchain* - Prof. Dawn Song — 2019-2020
- Applying secure computation and blockchains to train machine learning models on large-scale datasets while preserving data privacy

Dassault UAV Challenge - Prof. Nazih Mechbal — 2018-2019
- Competition between France's top engineering schools, whose aim is to program a drone to autonomously detect targets and deliver packages
- Successfully trained object detection neural networks (SSD with Google Inception v2) using computer generated training images

CREDA start-up program - Prof. Patrice Dubois — 2018-2019
- One of the seven students selected to be part of a start-up creation program
- Used data-analytics and clustering algorithms to help e-commerce businesses develop targeted marketing strategies
- Developed a web-app whose goal was to centralize the sale of instrumental rights

Core Competencies

- Python (*Pandas, TensorFlow, Pytorch, Scikit-Learn, Seaborn…*), Matlab, SQL, Web-scraping — I.T. Skills
- Statistical Learning Models, Stochastic Calculus for Mathematical Finance, Quantitative Analysis and Data Visualization
- Web Development (HTML/CSS/Bootstrap, JavaScript/jQuery, PHP, MySQL)
- French (mother tongue) • English (TOEFL: 111/120) • German (fully operational): Abitur (= A levels) — Languages

Awards and Societies

- **Hackathon First Prize Winner**: AI competition for prevention and performance (organized by Eurovia) — March 2019
- Correlation One's *Terminal Live* **AI Competition** (UC Berkeley vs. Stanford) — February 2020
- Citadel's *Data Open* **Datathon** at UC Berkeley — October 2019
- Member of the **Berkeley Investment Group** — 2019-2020
- Instructor for sophomores in **applied mathematics** — 2017-2019